

ABSTRACT OF THE DISCLOSURE

A drive current supply circuit is provided in which the speed of rise of the drive current to a laser diode is increased. In a drive current supply circuit for supplying drive current I to load 50 connected with the line 1R of two parallel lines 1R and 2R of a first current mirror circuit 1, this drive current supply circuit is provided with a control circuit CONT that controls the current i flowing in the other line 1L in accordance with first control signal $\Sigma\phi 1$ and the first control signal $\Sigma\phi 1$ comprises a steady DC component ϕD and a drive signal component $\phi 1$ added to the DC component ϕD when desired.